

Micro Commercial Components

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## MBR1020F THRU MBR10100F

10 Amp Schottky Barrier Rectifier 20 to 100 Volts

#### **Features**

- Low Power Loss
- High Efficiency
- Low Forward Voltage, High Current Capability
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Marking: type number

## Maximum Ratings

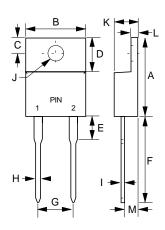
- Operating Junction Temperature: -50°C to +150°C
- Storage Temperature: -50°C to +150°C

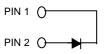
MCC	Maximum	Maximum	Maximum
Catalog	Recurrent	RMS	DC
Number	Peak Reverse	Peak Reverse Voltage	
	Voltage	_	Voltage
MBR1020F	20V	14V	20V
MBR1030F	30V	21V	30V
MBR1040F	40V	26V	40V
MBR1050F	50V	35V	50V
MBR1060F	60V	42V	60V
MBR1080F	80V	56V	80V
MBR1090F	90V	63V	90V
MBR10100F	100V	80V	100V

#### Electrical Characteristics @ 25°C Unless Otherwise Specified

rectificational actoristics @ 25 c offices office wise specific						
Average Forward Current	$I_{F(AV)}$	10 A	T <sub>C</sub> = 100°C			
Peak Forward Surge Current	I <sub>FSM</sub>	150A	8.3ms, half sine			
Maximum Instantaneous Forward Voltage 1020F-1040F 1050F-1060F 1080F-10100F	V <sub>F</sub>	.55V .75V .85V	T <sub>J</sub> = 25°C I <sub>FM</sub> = 10A;			
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	0.5mA 50mA	T <sub>C</sub> = 25°C T <sub>C</sub> = 100°C			

## **ITO-220AC**



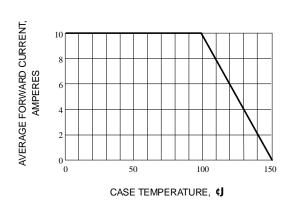


DIMENSIONS								
INCHES		ММ						
MIN	MAX	MIN	MAX	Ī				
.583	.606	14.80	15.40					
	.406		10.30					
.100	.112	2.55	2.85					
.248	.272	6.30	6.90					
	.161		4.10					
.512	.543	13.00	13.80					
.200		5.10						
	.035		0.90					
	.032		0.80					
.118	.134	3.00	3.40	Ø				
	.189		4.80					
	.123		3.10					
.098	.114	2.50	2.90					
	MIN .583	INCHES   MIN   MAX	INCHES   MIN   MAX   MIN   S83   .606   14.80     .100   .112   2.55   .248   .272   6.30     .161     .512   .543   13.00   .200     .035	INCHES				



### MBR1020F thru MBR10100F

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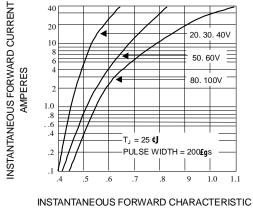


Fig. 1-FORWARD CURRENT DERATING CURVE

Fig. 2-TYPICAL INSTNATANEOUS FORWARD **CHARACTERISTIC** 

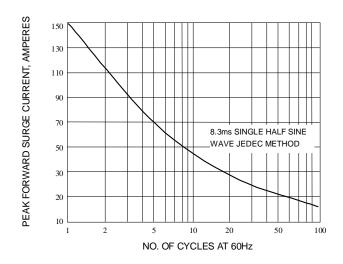


Fig. 3-MAXIMUM NON-REPETITIVE SURGE CURRENT



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